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T2147-907461-US 3878/JMD(PCT)

J003 Rec'd PCT/PTO 12 SEP 2001

IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (D.O./E.O./US)

Applicant: Francois CUNCHON ET AL.

International  
Application No.: PCT/FR00/00224

International  
Filing Date: 24 January 2001

U.S. Serial No.: To be assigned

U.S. Filing Date: September 11, 2001

For: MULTILEVEL SECURITY RELAY

McLean, Virginia

PRELIMINARY AMENDMENT

Honorable Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

Sir:

Please amend the subject application, filed concurrently herewith, as  
indicated below:

IN THE TITLE:

Please cancel the title in its entirety and substitute the following new title:

--SECURE MULTIAPPLICATION PROXY--;

IN THE SPECIFICATION:

Page 1, after the title and before the first paragraph, insert the following title  
at the left-hand margin:

--FIELD OF THE INVENTION--;

Page 1, at line 6, before the second paragraph, insert the following heading at  
the left-hand margin:

--DESCRIPTION OF RELATED ART--;

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Page 2, at line 14, before the paragraph beginning "In order to eliminate...",  
insert the following heading at the left-hand margin:

--SUMMARY OF THE INVENTION--;

Page 4, at line 1, before the first paragraph, insert the following heading:

--BRIEF DESCRIPTION OF THE DRAWINGS--;

Page 4, at line 13, before the paragraph beginning "Referring to Fig. 1...",  
insert the following paragraph at the left-hand margin:

--DESCRIPTION OF THE PREFERRED EMBODIMENT(S)--;

Page 10, after line 2, please insert the following new paragraph.

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--While this invention has been described in conjunction with specific embodiments thereof, it is evident that many alternatives, modifications and variations will be apparent to those skilled in the art. Accordingly, the preferred embodiments of the invention as set forth herein, are intended to be illustrative, not limiting. Various changes may be made without departing from the true spirit and full scope of the invention as set forth herein and defined in the claims.—

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**IN THE CLAIMS:**

Please delete claims 1 – 6 in their entirety and without prejudice and  
insert the following new claims:

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1           --7.    A method for allowing a client application (16) to establish, in a client  
2   network (10), a first connection having a first security level, directly with a first port  
3   (1) of a server application (17) hosted in a server machine (13) linked to a server  
4   network (11), in order to send messages (30) addressed to the server machine (13),  
5   said messages (30) passing from the client network (10) to the server network (11)  
6   through a network layer (CR) of a gateway machine (9), characterized in that it  
7   comprises:

- 8           - creating a second port (3) in the gateway machine (9);  
9           - ordering the network layer (CR) of the gateway machine (9) to reroute to the  
10   second port (3) any message sent to the first port (1), addressed to the server  
11   machine (13);  
12           - listening to the second port (3) to detect a request to establish said first  
13   connection and;  
14           - generating, in the gateway machine (9), a thread for establishing said first  
15   connection when a request to establish said first connection is detected in the  
16   second port (3).

1           8.    A method according to claim 7, further comprising:

- 2           - defining a third port (2) of the server application (17) for receiving at least  
3   one of the messages (30) with a second security level; and whereas said thread  
4   comprises;  
5           - establishing said first connection in a first phase with a first security level in a  
6   first interface associated with the second port (3) and with said request;  
7           - establishing in a second phase a second connection with a second level of

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8 security in a second interface to the third port (2) in the server machine (13);  
 9 - writing with the second security level in the second interface any message  
 10 read in the first interface with the first security level in a third phase, and;  
 11 - writing with the first security level in the first interface any message read in  
 12 the second interface with the second security level in a fourth phase.

1 9. A method according to claim 8, characterized in that it comprises:  
 2 - ordering the network layer (CR) of the gateway machine (9) to delete any  
 3 message sent to the third port (2).

1 10. A method according to claim 7, characterized in that the steps of  
 2 creating and ordering are executed automatically by a first process of the gateway  
 3 machine (9) and in that said first process generates a second process that executes  
 4 the third and the fourth step.

1 11. A method according to claim 8, characterized in that the steps of  
 2 creating and ordering are executed automatically by a first process of the gateway  
 3 machine (9) and in that said first process generates a second process that executes  
 4 the third and the fourth step.

1 12. A method according to claim 10, further comprising automatically  
 2 executing the steps of creating, rerouting and deleting by a first process of the  
 3 gateway machine (9) and generating by said first process a second process that  
 4 executes the steps of listening and generating a thread.

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1           13.    A method according to claim 11, further comprising automatically  
2   executing the steps of creating, rerouting and deleting by a first process of the  
3   gateway machine (9) and generating by said first process a second process that  
4   executes the steps of listening and generating a thread..

14. A method for allowing a client application (16) to establish in a client network (10) a first connection having a first security level, directly with a first port (1) of a server application (17) hosted in a server machine (13) linked to a server network (11), in order to send messages (30) addressed to the server machine (13), said messages (30) passing from the client network (10) to the server network (11) through a network layer (CR) of a gateway machine (9), characterized in that it consists of activating, in the gateway machine, a secure application proxy that reroutes the messages from the first connection, in a way that is transparent for the client application, in order to establish a second connection having a second security level with the server application, said second connection being unknown to said client application.--

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**IN THE ABSTRACT:**

Please delete the Abstract at page 13 and substitute the following Abstract.

- 5 The Abstract showing the changes made using brackets is appended as an attachment to this Preliminary Amendment.

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**--ABSTRACT**

A client application (16) establishes in a client network (10), a first connection

10 having a first security level, directly with a first port (1) of a server application (17) hosted in a server machine (13) linked to a server network (11), in order to send messages addressed to the server machine (13). The messages pass from the client network (10) to the server network (11) through a network layer (CR) of a gateway machine (9). In the gateway machine, a secure application proxy reroutes  
15 the messages from the first connection, in a way that is transparent for the client application, and establishes a second connection having a second security level with the server application; the second connection is unknown to the client application.--

**Q**uestions **A**nswers

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**REMARKS**

This Preliminary Amendment is filed to insert headings to conform the application to U.S. practice, to correct informalities in the specification, claims and abstract resulting from a literal translation of the French text, and to eliminate the use of multiple dependent claims.

Early action on the merits is earnestly solicited.

Respectfully submitted,

MILES & STOCKBRIDGE P.C.

Date: September 11, 2001

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**Amended ABSTRACT showing the changes by bracketing:****ABSTRACT****[MULTILEVEL SECURITY RELAY]**

A client application (16) establishes in a client network (10), a first connection  
25 having a first security level, directly with a first port (1) of a server application (17)  
hosted in a server machine (13) linked to a server network (11), in order to send  
messages addressed to the server machine (13). The messages pass from the  
client network (10) to the server network (11) through a network layer (CR) of a  
gateway machine (9). In the gateway machine, a secure application proxy reroutes  
30 the messages from the first connection, in a way that is transparent for the client  
application, and establishes a second connection having a second security level with  
the server application; the second connection is unknown to the client application.

[Fig. 1]

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